

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Illinois Tool Works Fastex
Attn: Greg Melchert
195 Algonquin Road
Des Plaines, Illinois 60016

Application No.: 02070077

I.D. No.: 031063AAD

Applicant's Designation:

Date Received: July 26, 2002

Subject: Tool Manufacturing Plant

Date Issued:

Expiration Date:

Location: 195 Algonquin Road, Des Plaines

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of eighty injection molding machines, five molding lines, eighteen metal stamping presses, cold cleaning degreaser and wipe solvent cleaning operations as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of volatile organic materials (VOM) from the source to less than major source thresholds (i.e., 25 tons/year, 10 tons/year for a single hazardous air pollutant (HAP) and 25 tons/year for totalled HAP). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits for this location.
2. Operation and emissions from plastic molding operations shall not exceed the following limits:
 - a. Plastic injection molding:

<u>Material</u>	<u>Usage</u>		<u>Emission Factor (lb/tons)</u>	<u>VOM Emissions</u>	
	<u>(tons/mo)</u>	<u>(tons/yr)</u>		<u>(lb/mo)</u>	<u>(ton/yr)</u>
Nylon	375	3,000	0.27	100	0.4
Polypropylene	65	500	0.42	27	0.1
Polyethylene	90	700	0.1	10	0.04
Other					
Thermoplastics	90	700	0.33	30	0.1
				Total	0.6

b. Molding Lines:

<u>Material</u>	<u>Usage</u>		<u>Emission</u>	<u>VOM Emissions</u>	
	<u>(tons/mo)</u>	<u>(tons/yr)</u>	<u>Factor</u>	<u>(lb/mo)</u>	<u>(ton/yr)</u>
Plastisols	15	110	40	600	2.2

These limits are based on the maximum materials throughput and plastic industry emission factors for molding temperature not exceeding 550°F. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data.

3. Lubricating oil usage and VOM emissions from stamping presses shall not exceed 2.0 tons/mo and 14.2 tons/yr. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data.
4. Clean-up solvent usage and VOM emissions from cleaning operations shall not exceed 0.5 tons/mo and 3.7 tons/yr.

The cold degreaser shall be operated according to the operating, equipment and material requirements of 35 Ill. Adm. Code 218.182.

Solvent usage shall be determined from the following equation:

$$U = V - W \times C$$

Where:

U - solvent usage (ton);

V - virgin solvent added to the process (ton);

W - certified amount of waste shipped off for recycling (ton);

C - certified VOM content of waste solvent (fraction).

Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data.

5. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish by rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.
6. The Permittee shall maintain monthly records of the following items:
 - a. Names and amounts of raw material used and processed at the facility (tons/mo, tons/yr);
 - b. VOM and HAP content of raw materials (wt.%);

- c. Certified records of amount of waste disposed and its VOM and HAP content (wt.%);
 - d. VOM and HAP emission calculations (ton/mo, ton/yr).
7. All records and logs required by this permit shall be completed by the last day of the month following the reported month and retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to the Illinois EPA or USEPA request for records during the course of a source inspection.
8. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
9. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:
- Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, IL 62794-9276
- and one (1) copy shall be sent to the Agency's regional office at the following address unless otherwise indicated:
- Illinois Environmental Protection Agency
Division of Air Pollution Control - Regional Office
9511 West Harrison
Des Plaines, Illinois 60016
10. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year:
- a. Names and amounts of raw material used and processed at the facility (tons/yr);
 - b. Amount of waste disposed (ton/yr).

It should be noted that the boilers and metal parts grinders are exempt from state permit requirements, pursuant to 35 Ill. Adm. Code 201.146(d) and (aa), respectively.

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If you have any questions on this permit, please call Valeriy Brodsky at (217) 782-2113.

Donald E. Sutton, P.E.
Manager of Permit Section
Division of Air Pollution Control

DES:VJB

cc: Illinois EPA, FOS Region 1
Illinois EPA, Compliance Section
Lotus Notes

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emission from the Tool Manufacturing Plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. This is processing of 5,000 tons of plastics, usage 14.2 tons of lubricating oil and 3.7 tons of cleaning solvent per year. The resulting maximum emissions are well below the levels, e.g., 25 tons per year for VOM, 10 tons/year for a single HAP and 25 tons/year for totalled HAP at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that material is handled, and control measures are more effective than required in this permit.

Process	VOM Emissions (ton/yr)
Injection Molding	0.6
Bumper Molding	2.2
Stamping Presses	14.2
Solvent Cleaning	3.7
Total	20.7

DES:VJB